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NOTICE OF ALLOWANCE AND FEE(S) DUE

7278

7590

07/20/2009

EXAMINER
SHEVIN, MARK L

ART UNIT P

PAPER NUMBER

1793

DATE MAILED: 07/20/2009

DARBY & DARBY P.C. P.O. BOX 770 Church Street Station New York, NY 10008-0770

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,435	03/27/2006	Andreas Orth	4791-4009	1639

TITLE OF INVENTION: METHOD AND PLANT FOR THE HEAT TREATMENT OF SOLIDS CONTAINING IRON OXIDE USING A FLUIDIZED BED REACTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				on of maintenance fees will be mailed to the current correspondence address as w correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
7278	7590 07/20	/2009	h				miccion	
DARBY & DARBY P.C. P.O. BOX 770 Church Street Station				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
New York, NY	10008-0770						(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	NVENTOR AT		DRNEY DOCKET NO.	CONFIRMATION NO.	
10/540,435	03/27/2006		Andreas Orth			4791-4009	1639	
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/20/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
SHEVIN,	MARK L	1793	075-444000				_	
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. THE PATENT (print or type)					
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing (B) RESIDENCE: (CI	an assignment. TY and STATE OR	COUNT	TRY)	ocument has been filed for	
Please check the appropri	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 (orporat	ion or other private gro	oup entity Government	
4a. The following fee(s) Issue Fee				4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed.				
☐ Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	atus (from status indicated s SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no l				FR 1.27(g)(2).	
NOTE: The Issue Fee an	nd Publication Fee (if rea		d from anyone other tha				ne assignee or other party in	
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Typed or printed name								
This collection of inform	nation is required by 37 (FR 1 311. The information	on is required to obtain	or retain a benefit by	the pub	lic which is to file (and	by the USPTO to process)	
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR	1.14. This collection is depending upon the interest Complete Theorem (COMPLETED FORMS)	estimated to take 12 dividual case. Any officer, U.S. Patent and TO THIS ADDRES	minute commen I Trader SS. SEN	s to complete, includir ts on the amount of ti- mark Office, U.S. Dep D TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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DARBY & DARBY P.C.			SHEVIN, MARK L			
P.O. BOX 770				ART UNIT	PAPER NUMBER	
Church Street Station New York, NY 10008-0770				1793 DATE MAILED: 07/20/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 265 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 265 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/540,435	ORTH ET AL.			
Notice of Allowability	Examiner	Art Unit			
	MARK L. SHEVIN	1793			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS			
1. X This communication is responsive to claims filed 03/18/200	<u>09</u> .				
2. The allowed claim(s) is/are <u>1-18</u> .					
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:					
 Certified copies of the priority documents have 	e been received.				
2. Certified copies of the priority documents have	e been received in Application No				
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	0.0, 4.14004			
(b) ☐ including changes required by the attached Examiner'		Office action of			
Paper No./Mail Date	s Amendment / Comment of in the v	Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)	5	Datant Annication			
1. Notice of References Cited (PTO-892)	5. Notice of Informal F				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da				
3. X Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amend	7. 🛮 Examiner's Amendment/Comment			
Paper No./Mail Date <u>06/22/2005 and 07/13/2009</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Statem	ent of Reasons for Allowance			
of Biological Material	- 9.				
/Mark L. Shevin/					
/IVIAIN L. SHEVIII/					



Application No.

Application/Control Number: 10/540,435 Page 2

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DETAILED ACTION

Status of Claims

1. Claims 1-29, filed March 18th, 2009, are currently under examination. Claim 1 has been amended and claims 19-29 are withdrawn.

Terminal Disclaimer and Power of Attorney

2. The terminal disclaimers filed on June 30th, 2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of applications 10-540,376; 10-540,438; or 10-540,434 have been reviewed and is accepted. The terminal disclaimers have been recorded.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on July 13th, 2009 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Please see the attached 1449 form.

Allowable Subject Matter

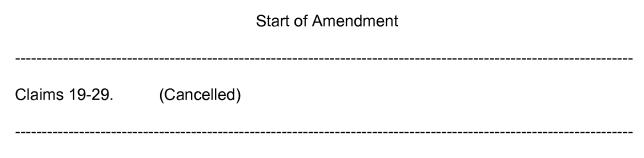
4. Claims 1-18 are allowed.

Examiner's Amendment

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Norman B. Thot on July 9th, 2009.



End of Amendment

Reasons for Allowance

6. The following is an examiner's statement of reasons for allowance:

The closest prior art of Hirsh and Hiltunen, nor any of the additional cited art of Engstrom, Rammler, Collin, or Husain, do not teach a method of heat treating solids containing iron oxide in a fluidized bed reactor where the gas velocities are adjusted such that the Particle-Froude-Numbers are in the ranges claimed in the three distinct portions of the reactor. The Examiner agrees with Applicants (p. 9, para 1 of the Remarks filed March 18th, 2009) that Hirsch does not teach establishing differing Froude ranges in different portions of the chamber, i.e. the gas supply line, annular fluidized bed, and mixing chamber, as recited by instant claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/540,435 Page 4

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shevin whose telephone number is (571) 270-3588 and fax number is (571) 270-4588. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy M. King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Mark L. Shevin/ Examiner, Art Unit 1793

> June 24th, 2009 10-540,435

> > /George Wyszomierski/ Primary Examiner Art Unit 1793